

Adapting to a Threat Mine Threat and Response in Afghanistan



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Change

“The Cold War was a system built around weight. . . . The globalization system is built around speed. In the Cold War, the big ate the small. In Globalization, the fast eat the slow....

**--Thomas Friedman, Author of
*The Lexus and the Olive Tree***

Summary

How Do we Learn and Adapt to a Threat: Mine Warfare and Response in Afghanistan

- **The Physical and Cultural Environment**
- **The Pre-Existing Mine Threat**
- **The UN response**
- **The Future Mine Threat**









ETHNIC GROUPS

MAJOR ETHNIC GROUPS

MAJOR PUSHTUN AREA
MAJOR ETHNIC UNITS

(D) DURRANI TRIBAL UNITS
(E) CHITRAL TRIBAL UNITS

UZBAK MAJOR ETHNIC GROUPS

KAKAR OTHER PUSHTUN TRIBE

MAJOR SOURCES

SOVETSKAYA ETHNOGRAFIYA, #2, 1955:
ETNICHESKII SOSTAV STRAN PREDNEI I ATL. OCEP.





BEFORE



AFTER



Current Mine Threat

“One of the Most Heavily Mined Countries in the World”

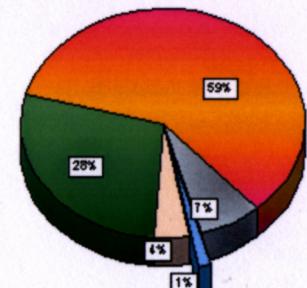
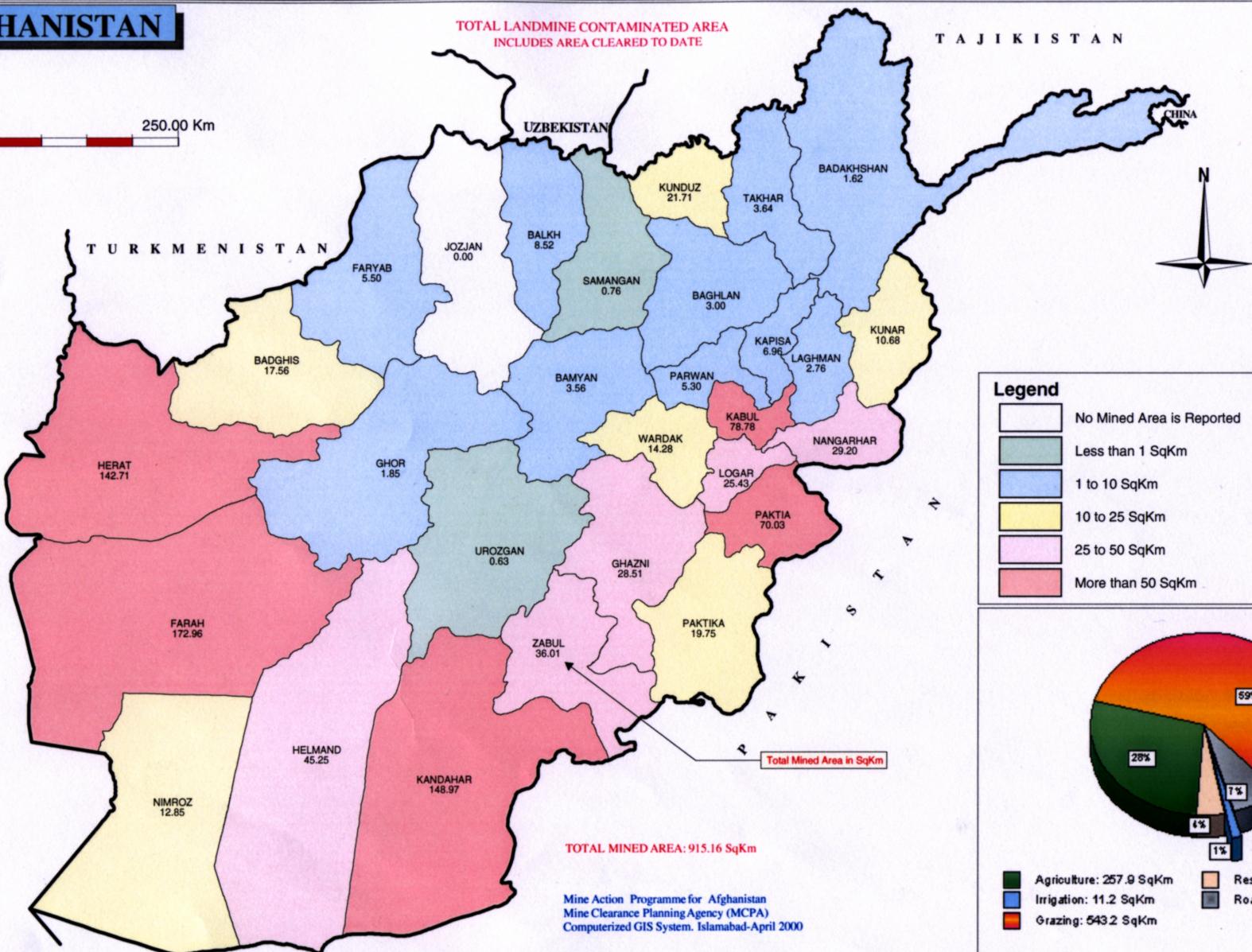
- 22 years of constant war
- 760 km² of known contaminated land
- 120-200 km² of suspected contamination
- Ammunition cache's
- UXO; Battle Area contamination is 2-5x that of mined area contamination

Pre-existing Threat Also in Yemen, Chad, Somalia etc.

AFGHANISTAN

0 250.00 Km
1: 6000000

TOTAL LANDMINE CONTAMINATED AREA
INCLUDES AREA CLEARED TO DATE



Current Mine Threat in Afghanistan

- Current minefields follow some military logic
 - Soviets to secure key installations, protect LOC's, area denial, close infil and exfil routes along borders.
 - Mujihadeen to ambush and interdict, protect CC
- Military terrain such as airfields remains mined
- Sophistication has increased in last 4 years
- Exact locations and formal marking are limited
- Community adaptation offers “clues” to mine locations

Present Mine Threat: “Mines-R-Us”



Bomb Yard, Kabul Airport--Dec 2001



soviet Cluster Munitions and 23mm Incendiary Rounds within current US Perimeter-December 2001



Humanitarian Impacts Have Security Implications

- Food Security-farmland and irrigation systems--greater aid and more incentives for poppy production
- Local Economy-transportation blockages
- Livestock losses
- Population Displacement, Un and Under Employment, helps entrench power of Warlords

Soviet Mine Warfare



Soviet Mine Warfare Tactics

- Secure major installations, airfields, POL
 - fixed, mapped, part of barrier plan
- Secure dispersed “fire bases” along LOC
 - fixed, part of barrier plan
- Deny populations the use of the land
 - scattered or on irrigation systems
- Close border with Pakistan and Iran
- Dismounted special and airmobile ops

Muj Mine Warfare



Mujihadeen Mine Warfare Tactics



- **Attack Lines of Communication**
- **Defend Strong Points and Supply Bases**
- **As part of Ambush or Series of Ambushes**
- **Advance of Anticipated Soviet Action**

Never Marked or Mapped

Soviet Counter-Mine Response



13:22
16 4 1996

Soviet Counter-Mine Cont.



- Doctrine
- MSD
- Op Sec
- Interdiction
- Deception

Recent Developments

- Mines used by both Taliban and Northern Alliance
- New mines fields all along former front lines
- More Sophisticated Ambushes
- “Boosted” mines and Improvised Explosive Devices (IED)
- Al-Qauda and “Terrorist Inc.” Expands Range of Detonators, Booby Traps

UN Mine Action Response

- UN Mine Action Programme For Afghanistan (MAPA) is largest and most successful demining operation in world
- 5,000 employees in 15 NGO's, \$25m per year
- Sophisticated “toolbox” of resources
 - 80 Manual teams -18 Mine Dog Groups
 - 20 Mechanical tms -EOD, BAC and Survey
- Strong indigenous capacity-very highly regarded
- Moderate use of data, mapping and decision support tools

Humanitarian Mine Action

- Survey and Clearance
- Victim's Assistance
- Mine Awareness Education
- Advocacy

- Information Management (?)



Clearing Farmland



Urban-- 3 Dimensional Problem



Military Preparation for Current Mine Threat

- Information sharing and coordination with MAPA, strong liaison function
- Develop “templating,” and reconnaissance abilities
- Route Clearance in support of convoys
- Retrain individual soldier skills along lines of Civilian Mine Awareness
- Resolve doctrinal challenge of Ordnance Disposal vs. Minefield Breaching

The Future?

“ ..The Conduct of War branches out in almost all directions and has no definite limits...”



Clausewitz, *On War*



Future Operational Environment

- **Adaptive use of Urban and Complex Terrain**
- **Effectively use all varieties of Mines and Explosives**
- **Decentralized, enemy operations**
- **Terrain will be Mined and Booby Trapped**
- **Attacks throughout Operational depth**
- **360 degree battlefield**



Dynamic Nature of Mine Warfare Environment

- **Unconventional tactics, coupled with offensive use**
- **Mines used to produce casualties, not to shape battlefield**
- **Changes in mine and booby trap technology outpace countermeasures**
- **Migration of mine & booby trap devices across and among international actors**
- **Mine employment, discipline, and techniques can vary between regional factions or state actors**

Future Mine Threat in Afghanistan

- Local threat can be expected
- Based on Mujihadeen Tactics vs. Soviets and Current Operations in Chechnya
- Used to Harass and Interdict LOC's
- As Part of "Series" Ambush
- More Sophisticated Methods of Detonation
- "Booby Traps"
- Large Improvised Explosive Device using UXO

Sources of Materials



Re-use mines



**UXO &
Captured
Stockpiles**

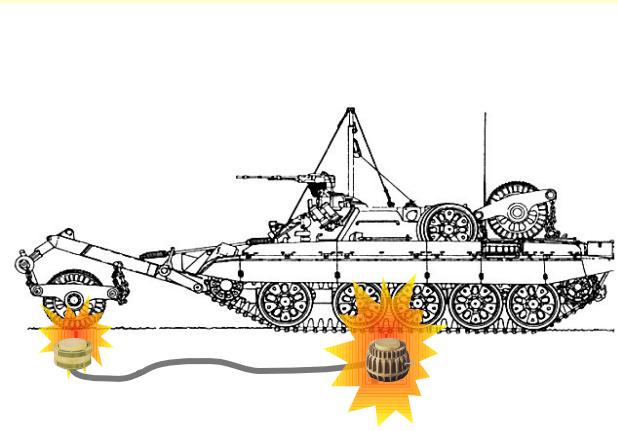


**External
Assistance**

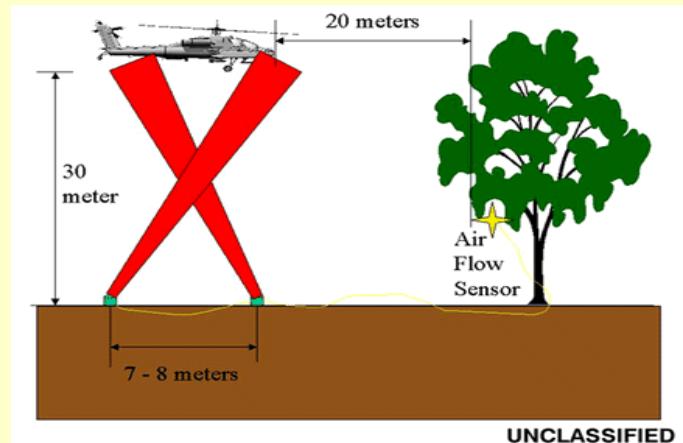


Off the Shelf

Tactics & Techniques



Attacks countermine equipment limitations



Innovative adaptation of components



Exploits Procedural Vulnerabilities

Mines used as a weapon - not as an obstacle

Response to Future Mine Threat

- **PREPARE**
 - understanding the current threat--UN/NGO's
 - and future, evolving threat
- **PREVENT** access to munitions
 - **Destroy Current Stores and Stocks**
 - **Leave Nothing on the Battlefield**
 - **Control Access to Ammo**
- **PREEMPT** through
 - **Intelligence, Surveillance & Reconnaissance**
 - **Active Patrolling**
 - **Raids**
 - **Attack the employer--not the mine**

Implications

- **It is not about now, or about the future, but about how we get there**
- **What are our systems for learning, evolving and implementing?**
- **There is no “end point” it is a race without and end**

When the Sun Comes up in the Jungle You had Better Be Running

The End

Questions?